

FIG. 1

Set-up

FIG. 2

Examine method
block for method type

~202

(SNI Method)

Obtain function
pointer from method
block

~204

Pass pointers to arguments
in Java stack;
Pass pointer to method
block pointer to function;
Pass execution environment
pointer to function.

~206

SNI Method executes

~208

END

FIG. 3

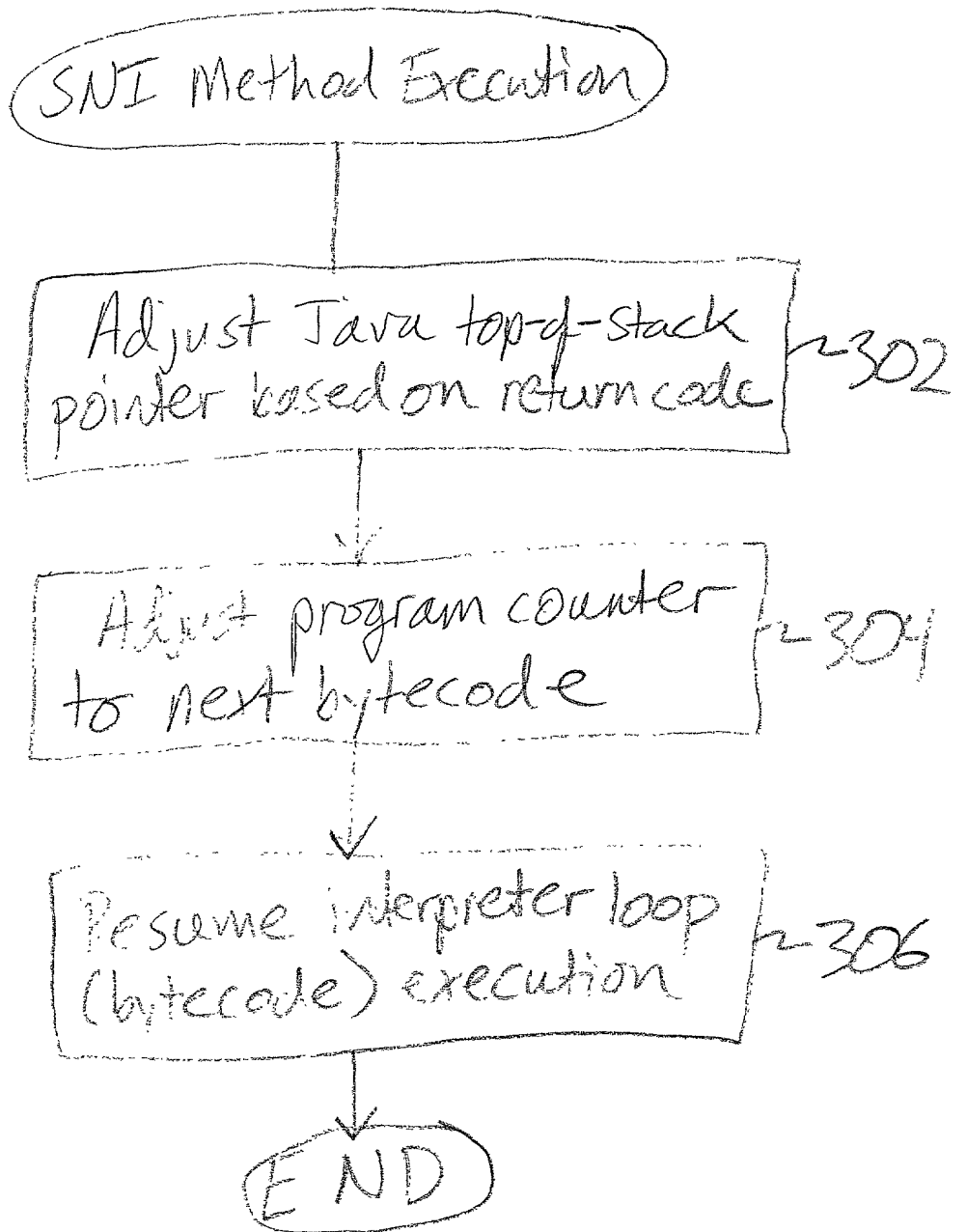


FIG. 4

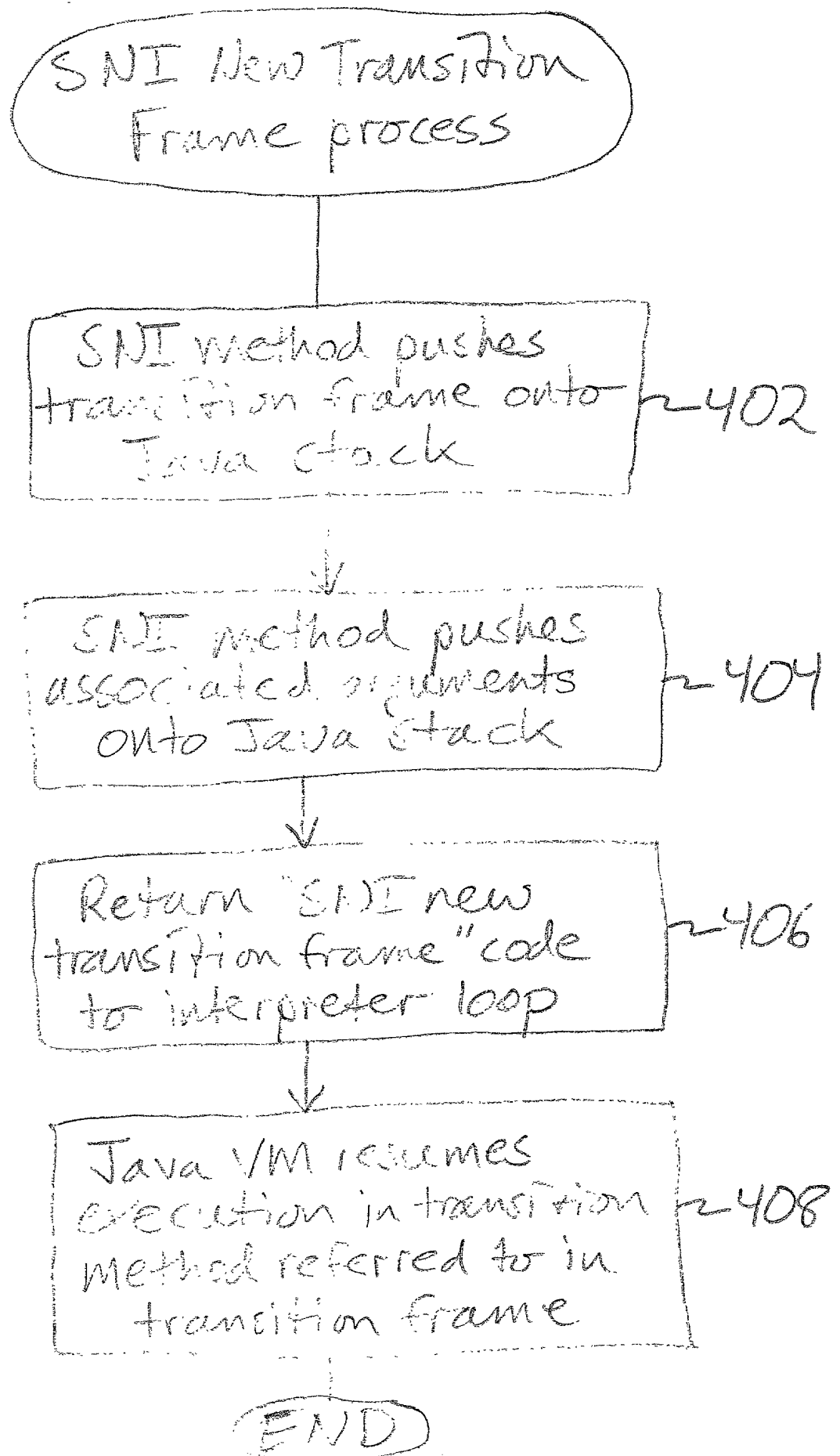


FIG. 5A

SNI New Method
Block Process

SNI method determines
which method block to
invoke

~502

Store pointer to method
block in pointer argument

~504

Push new arguments for
SNI method onto Java
Stack

~506

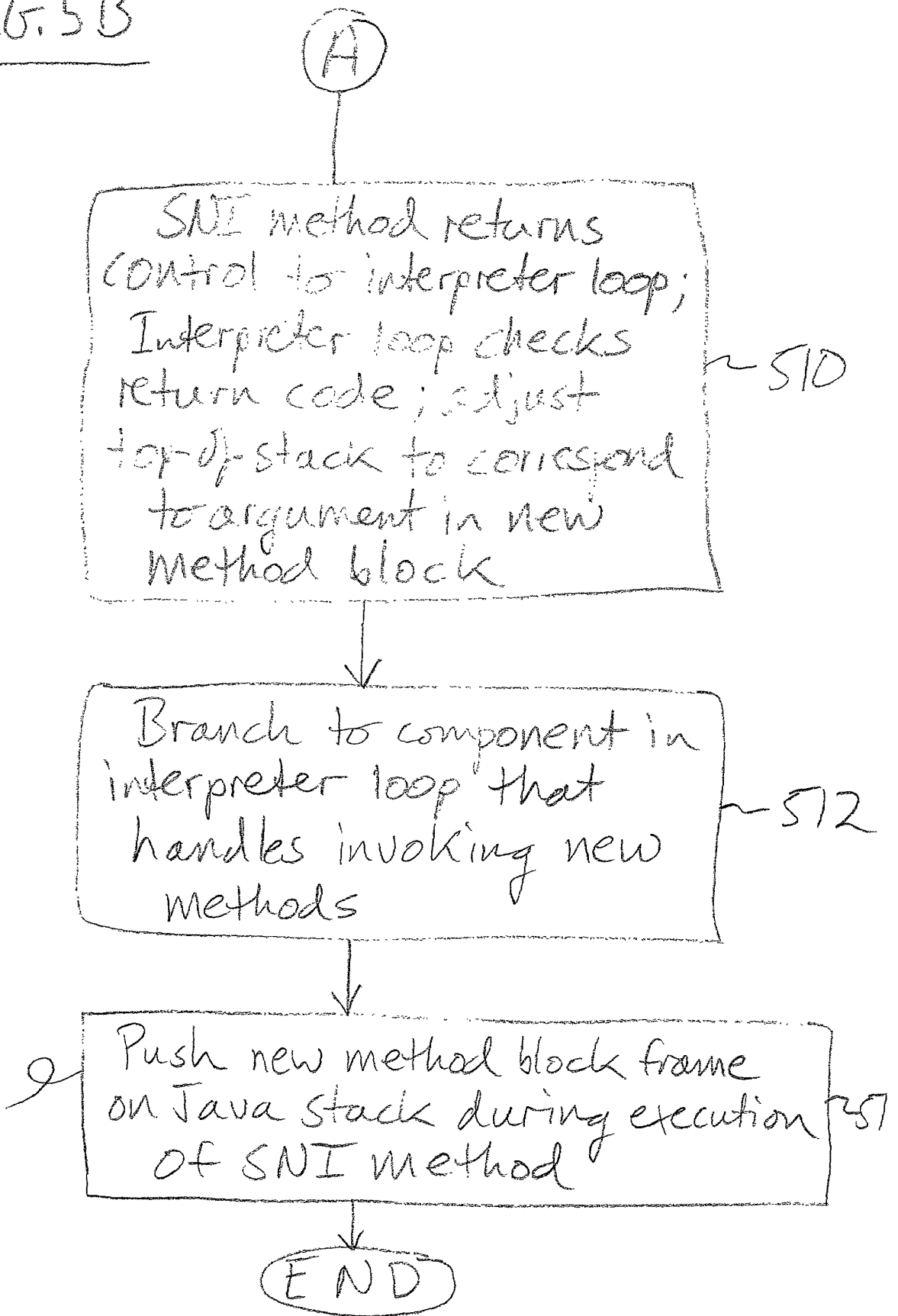
Return SNI new method
block

~508

A

0985963 032501
T05230 0965960

FIG. 5B



0965953.052501

FIG. 6 is a block diagram of a system for executing source code. The system includes a source code input, a bytecode compiler, a bytecode output, a runtime environment, and an operating system. The source code is input to the bytecode compiler, which outputs bytecodes to the runtime environment. The runtime environment includes a compiler, an interpreter, and a runtime system. The compiler outputs to the interpreter, which outputs to the runtime system. The runtime system outputs to the operating system.

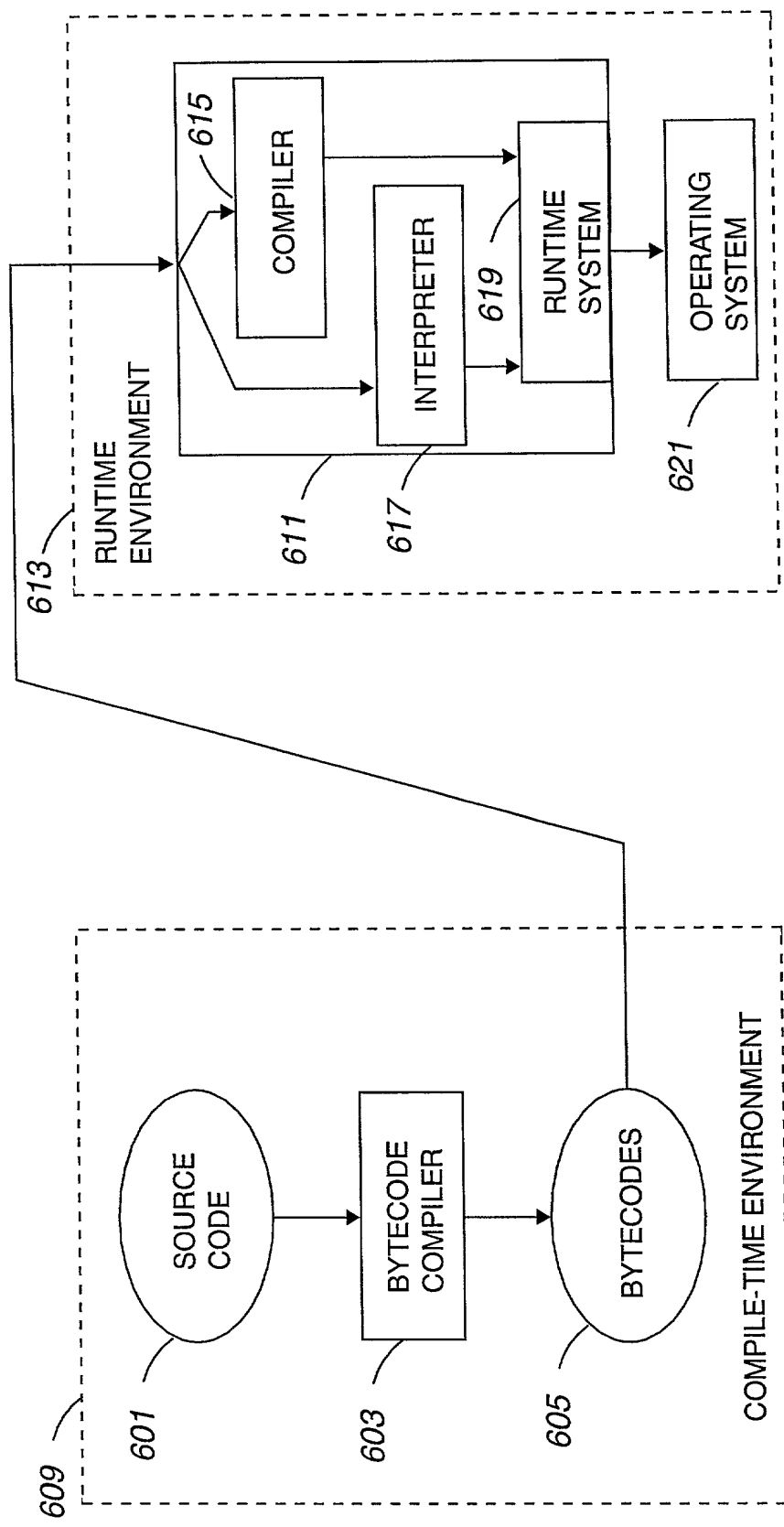


FIG. 6

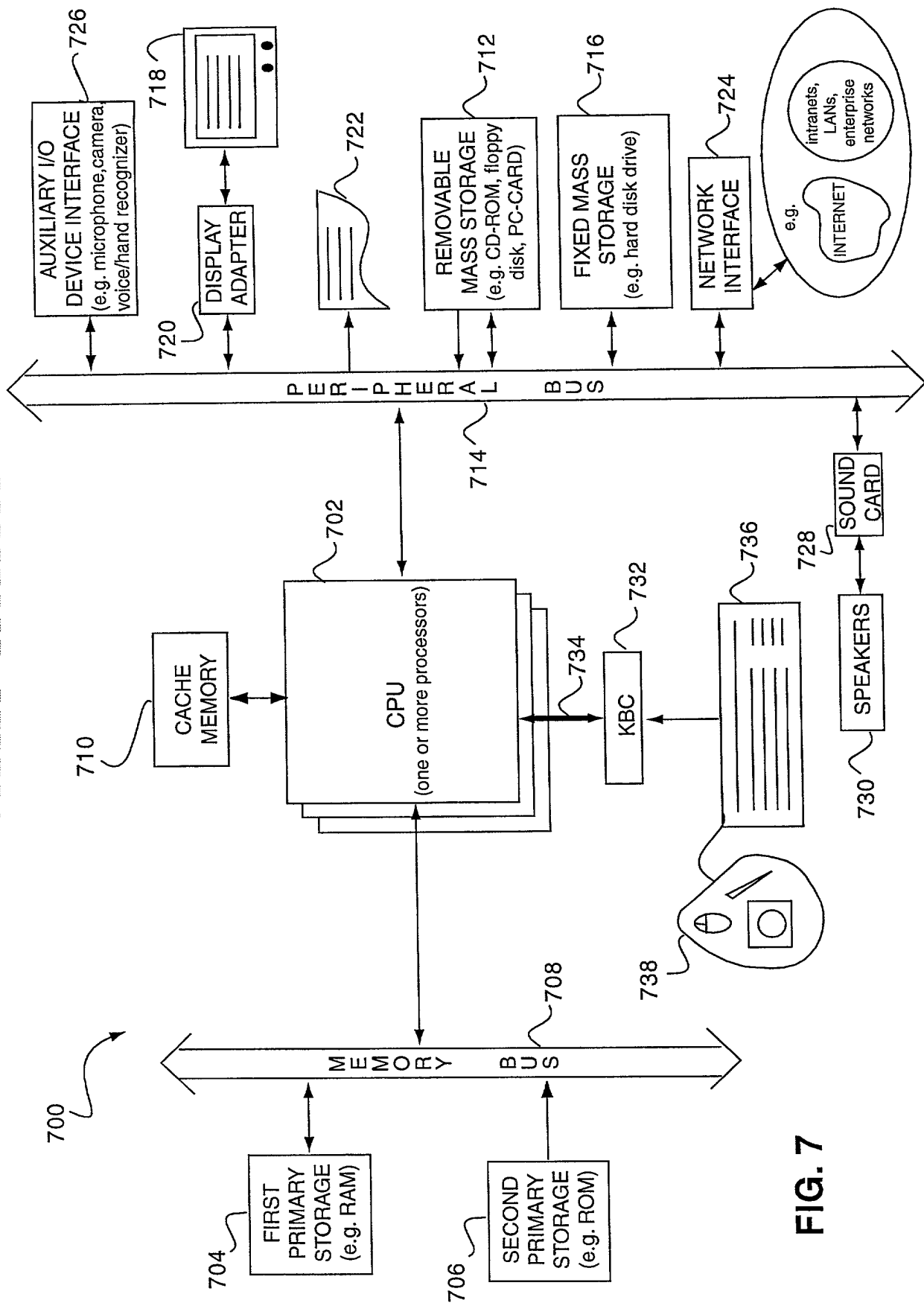


FIG. 7